6. Principles of Metallurgy

- 1. The impurity present in the ore is called as _____.
- 2. Galena is an ore of____.
- 3. The purpose of smelting an ore is to _____ it.
- 4. The formula of rust _____.
- 5. Smelting is carried out in_____ furnace.
- 6. The new substance added to ore to remove gangue is called_____.
- 7. Aluminium is used as a reducing agent in _____ process.
- 8. Roasting is carried out in_____ furnace.
- 9. _____ are least reactive elements.
- 10.Sulphide ores are concentrated by _____ process.
- 11. The formula of Bauxite _____.
- 12.Name the pyro chemical process in which ore is heated in the absence of air____.
- 13. The method suitable for purification of low boiling metals is ____ ()
 - a) Poling b) Distillation c) Liquation d) Electrolytic Refining
- 14. The chemical process in which one is heated in the absence of air is called_____

			()	
a) Roasting	b) Smelting	c) Calcination	d) Distillation	
15. The impurities present in the ore is called			()	
a) Slag	b) Forth	c) Flux	d) Gangue	

16. is a process of heating the ore strongly in the presence of oxygen ()a) Smelting b) Roasting c) Calcination d) Distillation

17.Smelting is carried out in Furnace				
a) Reverberatory b) Blast		c) Retort	d) Clay	
18.Roasting is carried out in Furnace				
a) Reverberatory	b) Blast	c) Retort	d) Clay	

19. The oil used in the froth floatation process is			())
a) Kerosene	b) Pine Oil	c) Coconut Oil	d) Olive Oil	
20.Forth floating is a method for the purification of ore ()				
a) Sulphide	b) Oxide	c) Carbonate	d) Nitrate	
21.Galena is an ore o	of		())
a) Zn	b) Pb	c) Fe	d) Al	
22.The most abundant metal in earth crust is ())
a) Oxygen	b) Aluminium	c) Zinc	d) Iron	
23. The purpose of smelting an ore is to ())	
a) Oxidize	b) Reduce	c) Neutralize	d) None of the	ese
24. Which of the following element occurs in free state ()				
a) Phosphorus	b) Sulphur	c) Silicon	d) Gold	

<u>Answers</u>

1) Gangue	2) Pb	3) Reduce	4) $Fe_2O_3XH_2O$
5) Blast	6) Flux	7) Thermite	8) Reverberatory
9) Au, Ag	10) Froth Floatation		11) Al ₂ O ₃ .2H ₂ O
12) Calcination	13) c	14) c	15) d
16) b	17) b	18) a	19) b
20) a	21) b	22) b	23) b

24) d